

USCMS Engineer Status Report for May 2003

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1 Work Performed This Month

IGUANA:

- o) Warnings clean up (to complete moving to gcc 3.2): obsolete headers have been removed/replaced from IgGeant3, IgOpenInventor;
- o) Porting to Coin3D (free version of Open Inventor), extensive testing, work abounds: Replaced IgSoPcon with IgSoG4Cons since Coin3D doesn't handle NURBS correctly;
- o) Tool-tip help implementation for 3D browser buttons;
- o) Visual feedback (small XYZ axis) control added;
- o) Grid control added;
- o) Web pages updated, new pictures added to the gallery;
- o) CHEP03 paper has been written and submitted: IGUANA Architecture, Framework and Toolkit for Interactive Graphics.

ORCA Visualisation:

- o) Porting to Coin3D: problems (in about 20 classes related to NURBS and not) submitted to Savannah bug reporting system. For half of them work around found.
- o) Warnings clean up (to complete moving to gcc 3.2): obsolete headers have been removed/replaced;
- o) Documentation done for visualisation parameters which can be configured in .orcrc;
- o) Port to the new plugin manager;
- o) HCAL color digis colored according to their energy;
- o) More text information on selection for sim tracks, hcal hits and digis, etc.;
- o) .orcrc editor: configurables can be changed and added;

OSCAR Visualisation:

- o) Tested and tagged for release;
- o) Re-Engineering started: Common for ORCA visualisation and OSCAR visualisation code has been moved to CORRA.

2 Plans For Next Month

- o) Mini-workshop on IGUANA: distribution and remote sites installation issues; architecture discussion; plan for 2004;
 - o) Complete re-engineering so that visualisation packages in different projects could have common base in COBRA (visualisation for sim application, rec application, Mantis visualisation, etc.)